

REVISED PER ADDENDUM NO. 2
CDR 2

HUTTON

Park of Commerce Way

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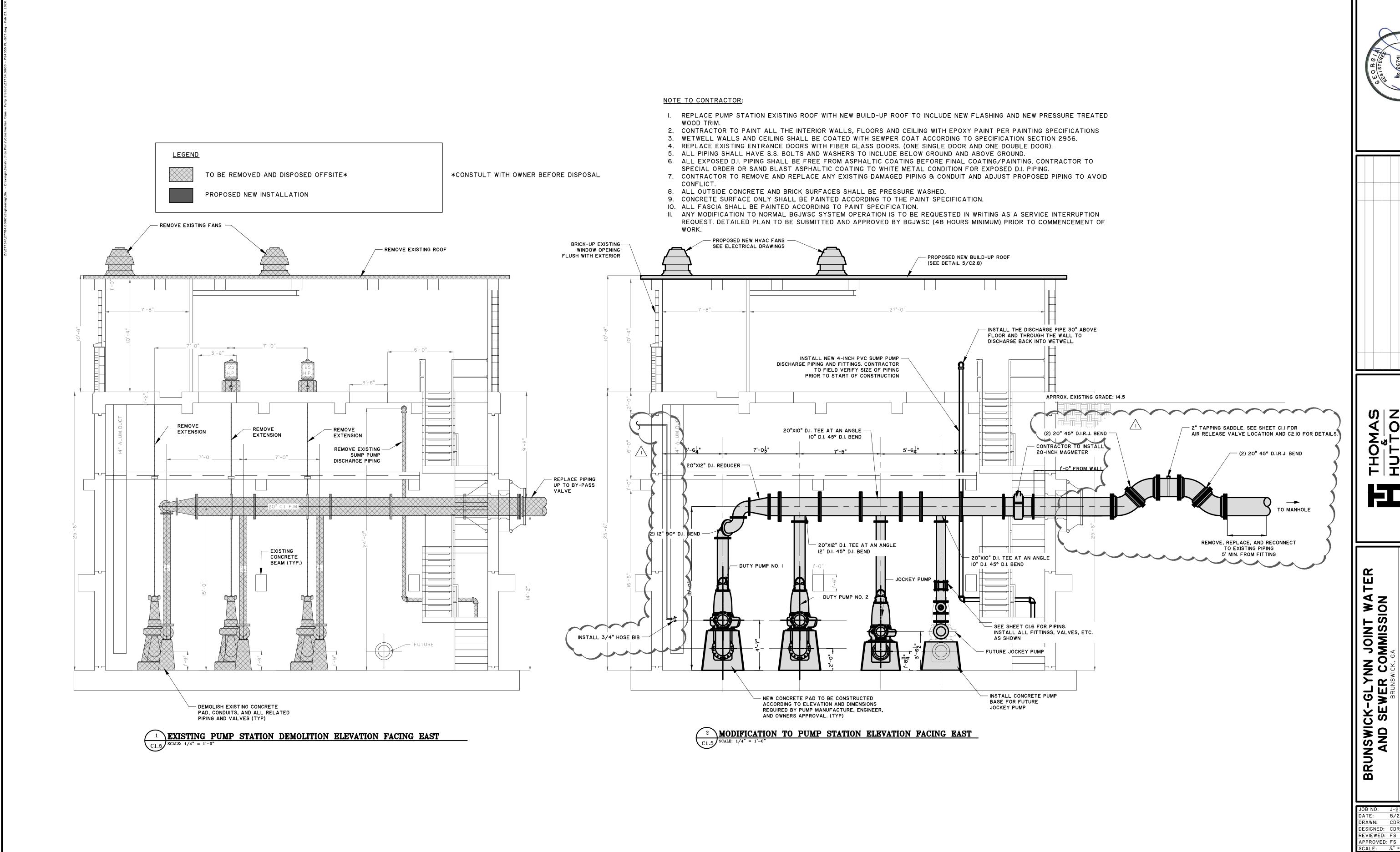
COMMISSION
SWICK, GA
PH-II PUMP STATION IMPROVEMENTS

BRUNSWICK-GLYNN JC AND SEWER COMI BRUNSWICK, GA 2016 SPLOST NORTH MAINLAND PH-11 PUMP ST

JOB NO: J-27784.0
DATE: 8/22/19
DRAWN: CDR
DESIGNED: CDR
REVIEWED: FS
APPROVED: FS

CALE: |" = 5'

C2.1





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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION

DRAWN: CDR DESIGNED: CDR REVIEWED: FS

REMOVE -EXTENSION

REMOVE -EXTENSION \*CONSTULT WITH OWNER BEFORE DISPOSAL

REMOVE EXISTING ROOF

REMOVE EXISTING — SUMP PUMP

DISCHARGE PIPING

EXTENSION

- EXISTING

DEMOLISH EXISTING CONCRETE
 PAD, CONDUITS, AND ALL RELATED
 PIPING AND VALVES (TYP)

CONCRETE BEAM (TYP.)

EXISTING PUMP STATION DEMOLITION ELEVATION FACING SOUTHWEST

C2.5 SCALE: 1/4" = 1'

## - PROPOSED NEW HVAC FANS $^-$ SEE ELECTRICAL DRAWINGS - PROPOSED NEW BUILD-UP ROOF (SEE DETAIL5/C2.8) INSTALL THE DISCHARGE PIPE 30" ABOVE FLOOR AND THROUGH THE WALL TO DISCHARGE BACK INTO WETWELL. INSTALL NEW 4-INCH PVC SUMP PUMP -DISCHARGE PIPING AND FITTINGS. CONTRACTOR TO FIELD VERIFY SIZE OF PIPING PRIOR TO START OF CONSTRUCTION 16"X10" D.I. TEE — 16"XIO" D.I. TEE -⊨ 16" D.I. CAP SEE SECTION 2/C2.7 FOR EQUIVALENT PIPING LAYOUT JOCKEY PUMP - DUTY PUMP NO. 2 FUTURE JOCKEY PUMP INSTALL 3/4" HOSE BIB

EXISTING BLIND FLANGE TO BE REMOVED. - REMAINING OPENING TO BE GROUT FILLED

AND EPOXY COATED.

2 MODIFICATION TO PUMP STATION ELEVATION FACING SOUTHWEST
C2.5 SCALE: 1/4" = 1'

## NOTE TO CONTRACTOR:

NEW CONCRETE PAD TO BE CONSTRUCTED —
ACCORDING TO ELEVATION AND DIMENSIONS —
REQUIRED BY PUMP MANUFACTURE, ENGINEER,

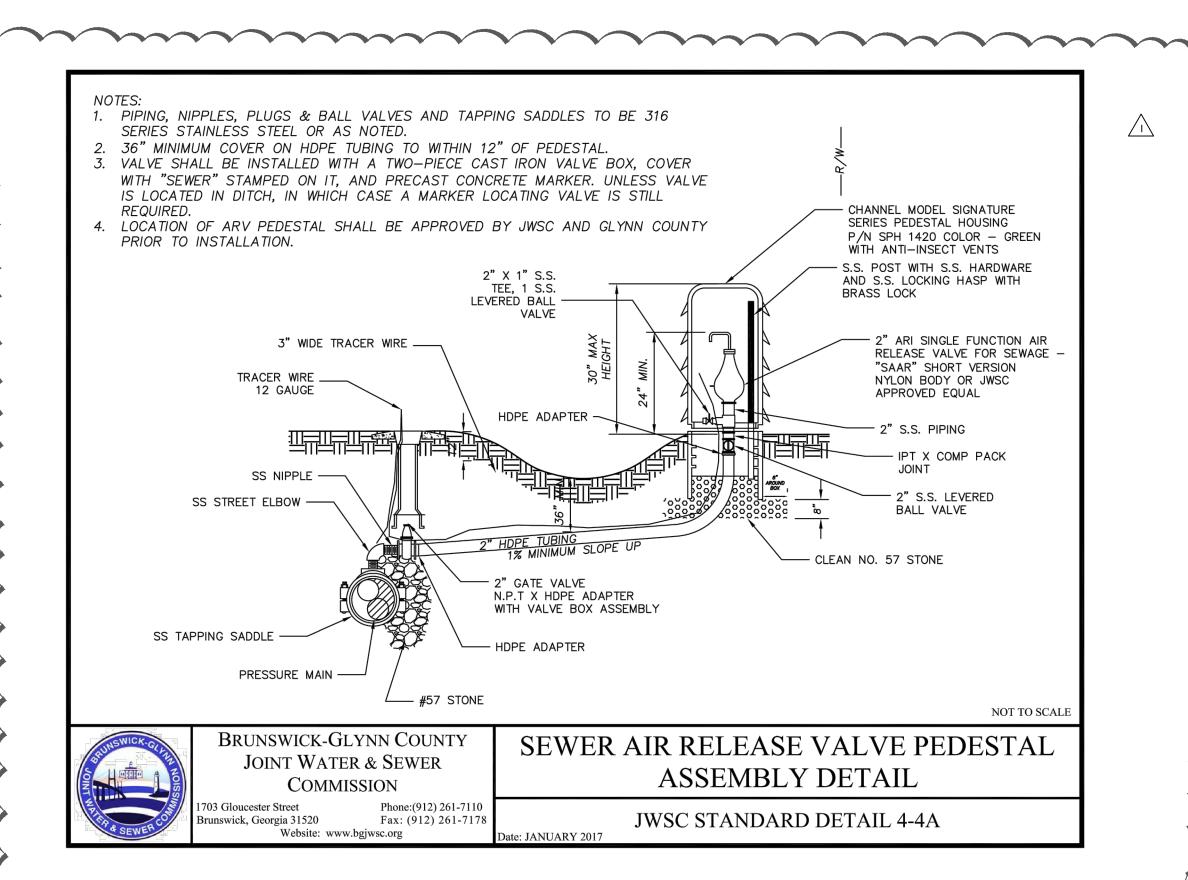
AND OWNERS APPROVAL. (TYP)

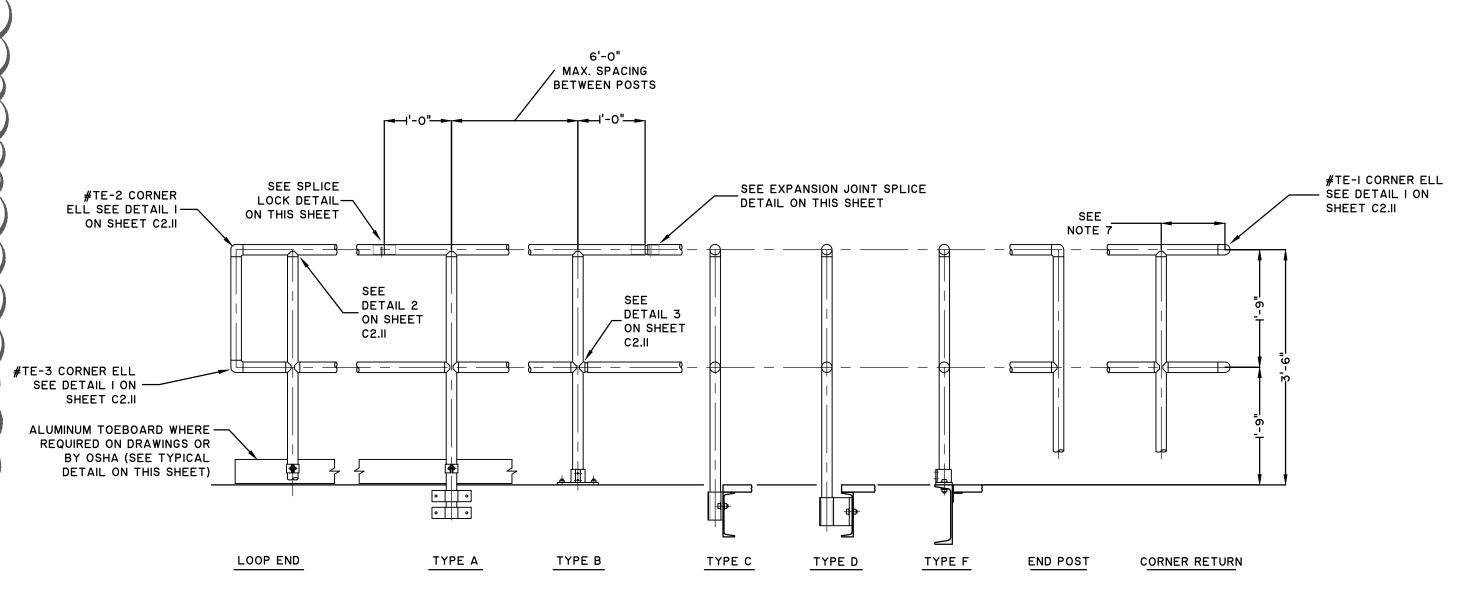
- I. REPLACE PUMP STATION EXISTING ROOF WITH NEW BUILD-UP ROOF TO INCLUDE NEW FLASHING AND NEW PRESSURE TREATED
- 2. CONTRACTOR TO PAINT ALL THE INTERIOR WALLS, FLOORS AND CEILING WITH EPOXY PAINT PER PAINTING SPECIFICATIONS
- 3. WETWELL WALLS AND CEILING SHALL BE COATED WITH SEWPER COAT ACCORDING TO SPECIFICATION SECTION 2956.
- 4. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR). 5. ALL PIPING SHALL HAVE S.S. BOLTS AND WASHERS TO INCLUDE BELOW GROUND AND ABOVE GROUND.
- 6. ALL EXPOSED D.I. PIPING SHALL BE FREE FROM ASPHALTIC COATING BEFORE FINAL COATING/PAINTING. CONTRACTOR TO
- SPECIAL ORDER OR SAND BLAST ASPHALTIC COATING TO WHITE METAL CONDITION FOR EXPOSED D.I. PIPING. 7. CONTRACTOR TO REMOVE AND REPLACE ANY EXISTING DAMAGED PIPING & CONDUIT AND ADJUST PROPOSED PIPING TO AVOID
- 8. ALL OUTSIDE CONCRETE AND BRICK SURFACES SHALL BE PRESSURE WASHED.
- 9. CONCRETE SURFACE ONLY SHALL BE PAINTED ACCORDING TO THE PAINT SPECIFICATION.
- IO. ALL FASCIA SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATION.
- II. ANY MODIFICATION TO NORMAL BGJWSC SYSTEM OPERATION IS TO BE REQUESTED IN WRITING AS A SERVICE INTERRUPTION REQUEST. DETAILED PLAN TO BE SUBMITTED AND APPROVED BY BGJWSC (48 HOURS MINIMUM) PRIOR TO COMMENCEMENT OF

- INSTALL CONCRETE BASE FOR FUTURE JOCKEY PUMP

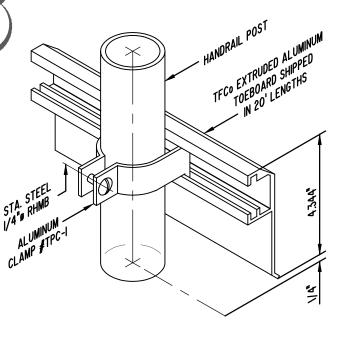
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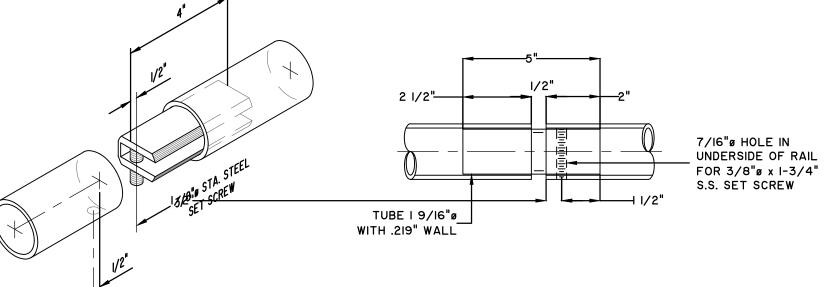




## TYPICAL HANDRAIL SCALE: NTS





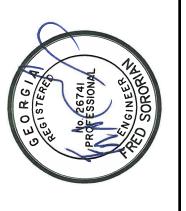


EXPANSION JOINT SPICE #ES-1 (LOCATED AT 60'-0"MAXIMUM INTERVALS)

PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.

OSHA DESIGN SPECIFICATIONS

- I. HANDRAIL SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION. 2. HANDRAILS SHALL BE DESIGNED TO WITHSTAND 200# CONCENTRATED LOAD APPLIED IN ANY DIRECTION TO THE
- 3. THE MANUFACTURER SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR APPROVAL. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
- 4. POST SPACING SHALL BE A MAXIMUM OF 6'-O". POSTS AND RAILINGS SHALL BE A MINIMUM OF I-I/2" SCHEDULE 40 ALUMINUM PIPE ALLOY 6105-T5, ASTM-B-429 OR ASTM-B-221. THE HANDRAIL MANUFACTURER SHALL SHOW THAT THEIR POSTS ARE OF ADEQUATE STRENGTH TO MEET THE LOADING REQUIREMENTS. IF THE MANUFACTURER'S POSTS ARE NOT OF ADEQUATE STRENGTH, THE MANUFACTURER MAY REDUCE THE POST
- SPACING OR ADD REINFORCING DOWELS OR MAY DO BOTH IN ORDER TO MEET THE LOADING REQUIREMENTS. 5. THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE MUST BE SUBMITTED FOR APPROVAL. COMPONENTS THAT ARE POP-RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE. HANDRAIL AND COMPONENTS SHALL BE TUF RAIL, AS MANUFACTURED BY THOMPSON FABRICATING COMPANY (BIRMINGHAM, ALABAMA) OR AN APPROVED EQUAL
- 6. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23). THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
- 7. THE MIDRAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200# LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM. PROVIDE PHYSICAL TESTS FROM A LABORATORY TO CONFIRM COMPLIANCE.
- 8. EXPANSION BOLTS SHALL BE SPACED IOD APART AND 5D EDGE DISTANCE FOR NO REDUCTION IN PULLOUT STRENGTH. A SAFETY FACTOR OF 4 SHALL BE USED ON EXPANSION BOLT PULLOUT VALUES PUBLISHED BY THE MANUFACTURER. EXPANSION BOLTS SHALL BE STAINLESS STEEL TYPE 18-8 WEDGE BOLTS AND SHALL BE FURNISHED BY THE HANDRAIL MANUFACTURER.
- 9. TOE PLATE SHALL CONFORM TO OSHA STANDARDS. TOE PLATE SHALL BE A MINIMUM OF 4" HIGH AND SHALL BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS WHICH WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE PLATES SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE PLATES SHALL BE PROVIDED ON HANDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS. TOE PLATES
- SHALL BE SHIPPED LOOSE IN STOCK LENGTHS WITH PRE-MANUFACTURED CORNERS FOR FIELD INSTALLATION. IO. OPENINGS IN THE RAILING SHALL BE GUARDED BY A SELF-CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL
- NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. II. FINISH SHALL BE ALUMINUM ASSOCIATION MIO-C22-A4I (215-RI). THE PIPE SHALL BE PLASTIC-WRAPPED. THE
- 12. ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.



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